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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q83535

Andrew Lennard LEWIS, et al.

Appln. No.: 10/506,814

Group Art Unit: Not yet assigned

Confirmation No.: Not yet assigned

Examiner: Not yet assigned

Filed: September 7, 2004

For: COMPOSITION OF POLYMERS

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. WO 95/05408 published February 23, 1995, to Biocompatibles Limited.
2. WO 98/22516 published May 28, 1998, to Biocompatibles Limited.
3. WO 98/22517 published May 28, 1998, to Biocompatibles Limited.
4. WO 98/56334 published December 17, 1998, to University of Nebraska Board of Regents.
5. WO 98/56348 published December 17, 1998, to University of Nebraska Board of Regents.
6. WO 99/06055 published February 11, 1999, to Supratek Pharma Inc.

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7. WO 00/28920 published May 25, 2000, to Biocompatibles Limited.
8. WO 00/29481 published May 25, 2000, to Biocompatibles Limited.
9. V. Bütün et al., "Selective betainisation of tertiary amine methacrylate block copolymers", *J. Mater. Chem.*, Vol 7, No. 9, (1997), pp. 1693-1695.
10. T.K. Bronich et al., "Effects of Block Length and Structure of Surfactant on Self-Assembly and Solution Behavior of Block Ionomer Complexes", *Langmuir*, Vol. 16, (2000), pp. 482-489.
11. T. Govender et al., "Drug-polyionic block copolymer interactions for micelle formation: physicochemical characterisation", *Journal of Controlled Release*, Vol. 75, (2001), pp. 249-258.
12. T. Inoue et al., "An AB block copolymer of oligo(methyl methacrylate) and poly(acrylic acid) for micellar delivery of hydrophobic drugs", *Journal of Controlled Release*, Vol. 51, (1998), pp. 221-229.
13. A.L. Lewis et al., "Synthesis and characterisation of phosphorylcholine-based polymers useful for coating blood filtration devices", *Biomaterials*, Vol. 21, (2000), pp. 1847-1859.
14. A.L. Lewis et al., "Crosslinkable coatings from phosphorylcholine-based polymers", *Biomaterials*, Vol. 22, (2001), pp. 99-111.
15. U. Rungsardthong et al., "Copolymers of amine methacrylate with poly(ethylene glycol) as vectors for gene therapy", *Journal of Controlled Release*, Vol. 73, (2001), pp. 359-380.
16. D.A. Styrkas et al., "pH-Controlled Adsorption of Polyelectrolyte Diblock Copolymers at the Solid/Liquid Interface", *Langmuir*, Vol. 16, (2000), pp. 5980-5986.
17. M. Vamvakaki et al., "Synthesis of Controlled Structure Water-Soluble Diblock Copolymers via Oxyanionic Polymerization", *Macromolecules*, Vol. 32, (1999), pp. 2088-2090.

One copy of each of the listed documents is submitted herewith. Also enclosed is a copy of the International Search Report which identifies Items 1, 2, 4, 7, 8, 13, 14, and 16 listed above.

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INFORMATION DISCLOSURE STATEMENT

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

  
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Date: January 19, 2005

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	Q83535
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Complete if Known

Application Number	10/506,814
Confirmation Number	Not yet assigned
Filing Date	September 7, 2004
First Named Inventor	Andrew Lennard LEWIS
Art Unit	Not yet assigned
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		WO	95/05408	A1	02/23/1995	Biocompatibles Ltd.	
		WO	98/22516	A1	05/28/1998	Biocompatibles Ltd.	
		WO	98/22517	A1	05/28/1998	Biocompatibles Ltd.	
		WO	98/56334	A1	12/17/1998	Univ. of Nebraska Board of Regents	
		WO	98/56348	A1	12/17/1998	Univ. of Nebraska Board of Regents	
		WO	99/06055	A1	02/11/1999	Supratek Pharma Inc.	
		WO	00/28920	A1	05/25/2000	Biocompatibles Ltd.	
		WO	00/29481	A1	05/25/2000	Biocompatibles Ltd.	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		V. Büttün et al., "Selective betainisation of tertiary amine methacrylate block copolymers", J. Mater. Chem., Vol 7, No. 9, (1997), pp. 1693-1695	
		T.K. Bronich et al., "Effects of Block Length and Structure of Surfactant on Self-Assembly and Solution Behavior of Block Ionomer Complexes", Langmuir, Vol. 16, (2000), pp. 482-489	
		T. Govender et al., "Drug-polyionic block copolymer interactions for micelle formation: physicochemical characterisation", Journal of Controlled Release, Vol. 75, (2001), pp. 249-258	
		T. Inoue et al., "An AB block copolymer of oligo(methyl methacrylate) and poly(acrylic acid) for micellar delivery of hydrophobic drugs", Journal of Controlled Release, Vol. 51, (1998), pp. 221-229	
		A.L. Lewis et al., "Synthesis and characterisation of phosphorylcholine-based polymers useful for coating blood filtration devices", Biomaterials, Vol. 21, (2000), pp. 1847-1859	
		A.L. Lewis et al., "Crosslinkable coatings from phosphorylcholine-based polymers", Biomaterials, Vol. 22, (2001), pp. 99-111	
		U. Rungsardthong et al., "Copolymers of amine methacrylate with poly(ethylene glycol) as vectors for gene therapy", Journal of Controlled Release, Vol. 73, (2001), pp. 359-380	
		D.A. Styrkas et al., "pH-Controlled Adsorption of Polyelectrolyte Diblock Copolymers at the Solid/Liquid Interface", Langmuir, Vol. 16, (2000), pp. 5980-5986	
		M. Vamvakaki et al., "Synthesis of Controlled Structure Water-Soluble Diblock Copolymers via Oxyanionic Polymerization", Macromolecules, Vol. 32, (1999), pp. 2088-2090	

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.